

***Amendments to the Abstract***

A marked-up copy of the Abstract illustrating the amendments is provided below. In compliance with 37 C.F.R. §1.72, a clean copy of the Abstract on a separate page is provided.

**RADIO FREQUENCY IDENTIFICATION (RFID) BASED SENSOR  
NETWORKS**

**ABSTRACT OF THE DISCLOSURE**

An RF addressable sensor network architecture is provided. The RF addressable sensor network includes one or more RF addressable sensors, one or more wireless sensor readers coupled to a communications network, and one or more end user devices coupled to the communications network. The RF addressable sensor network may also include a sensor network processor. An RF addressable sensor includes one or more sensor elements, one or more antennas for communicating with the wireless sensor reader, an RF power and communications interface, [[and]] an RFID control module, and a sensor interface. The wireless sensor reader includes one or more antennas, a user interface, a controller, a network communications module, and an RF addressable sensor logic module.